Camera 220C

Document Camera
User's Guide

DUKANE

Table of Contents

TABLE OF CONTENTS 0

TABLE OF CONTENTS 1

COPYRIGHT INFORMATION 2

CHAPTER 1 PRECAUTIONS 3

CHAPTER 2 PACKAGE CONTENT 6

CHAPTER 3 PRODUCT OVERVIEW 7

3.1 PRODUCT INTRODUCTION 7

3.2 I/O CONNECTION 8

3.3 DIP SWITCH 8

3.4 INFRARED REMOTE CONTROL 9

CHAPTER 4 HOW TO USE IT 10

4.1 GETTING STARTED 10

4.1.1 TURN ON THE DIGITAL PRESENTER. 10

4.1.2 LENS FOCUS 10

4.1.3 ZOOM IN / OUT 10

4.1.4 SWITCH SOURCE 10

4.1.5 PHOTO/TEXT: 11

4.1.6 ENTER AWB 11

4.1.7 CAPTURE IMAGE & REVIEW CAPTURE IMAGE 11

4.2 SHOWING THE OSD MENU 13

4.3 SELECT FUNCTION: 13

4.4 OSD MENU INTRODUCTION 14

CHAPTER 5 USB SOFTWARE INSTRUCTIONS 17

CHAPTER 6 TROUBLESHOOTING ..... Inside Back Cover

Chapter 1 Precautions

Always follow these safety instructions when setting up and using the Digital Presenter:

1. Do not place the Digital Presenter on an unstable trolley, stand or table.
2. Do not use the Digital Presenter near water or source of heat.
3. Use attachments only as recommended.
4. Use the type of power source indicated on the Digital Presenter. If you are not sure of the type of power available, consult your dealer or local electricity company for advice.
5. Place the Digital Presenter where it can be easily unplugged.
6. Always take the following precautions when handling the plug. Failure to do so may result in sparks or fire.
   - Ensure the plug is free of dust before inserting it into a socket.
   - Ensure that the plug is inserted into the socket securely.
7. Do not overload wall sockets, extensions leads or multi-way plug boards as this may cause fire or electric shock.
8. Do not place the Digital Presenter where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
9. Unplug the projector form the wall socket before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.
10. Do not block the slots and openings in the case. They provide ventilation and prevent the Digital Presenter from overheating. Do not place the Digital Presenter on a sofa, rug or other soft surface or in a built-in installation unless proper ventilation is provided.
11. Never push objects of any kind through slots. Never allow liquid of any kind to spill into the Digital Presenter.
12. Except as specifically instructed in this User's Manual, do not attempt to operate this product by yourself. Opening or removing covers may expose you to dangerous voltages and other hazards. Refer all servicing to licensed service personnel.
13. Unplug the Digital Presenter during thunderstorms or if it is not going to be used for an extended period, do not place the Digital Presenter or remote control on top of heat-emitting equipment or heated objects such as a car and etc.
14. In the following situations, unplug the Digital Presenter from the wall outlet and refer servicing to licensed service personnel:
    - If the power cable or plug becomes damaged or frayed.
    - If liquid is spilled into it or the Digital Presenter has been exposed to rain or water.

■ Safety Precautions

Warning: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

This Digital Presenter has a 2 wires AC line Plug. This is a safety feature to ensure that the plug will fit into the power outlet. Do not try to defeat this safety feature.
If the Digital Presenter will not be used for an extended time, unplug it from the power outlet.

<table>
<tr><td colspan="4"> CAUTION
RISK OF ELECTRIC SHOCK </td></tr>
<tr><td colspan="4">Caution: To reduce the risk of electric shock. Do not remove cover (or back). No user-serviceable parts inside. Refer servicing to licensed service Personnel.</td></tr>
<tr><td> </td><td>This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.</td><td> </td><td>This symbol indicates that there are important operating and maintenance instructions in this User’s Manual with this unit.</td></tr>
</table>

■ FCC Warning

This Digital Presenter has been certified to comply with the limits for a Class A computing device, pursuant to Subpart J of Part 15 of FCC Rules. These limits are designed to provide reasonable protection against a harmful interference when the equipment is operated in a commercial environment.

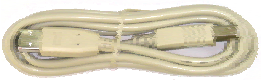
■ EN55022 (CE Radiation) Warning

This product is intended for use in a commercial, industrial, or educational environment. It is not intended for residential use.

This is a Class A product. In a domestic environment it may cause radio interference, in which case the user may be required to take adequate measures. The typical use is in a conference room, meeting room or auditorium.

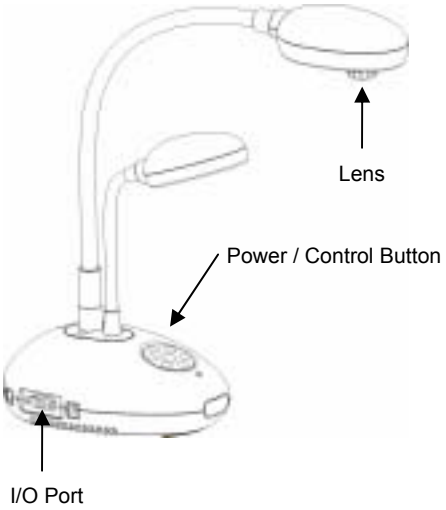
Chapter 2 Package Content

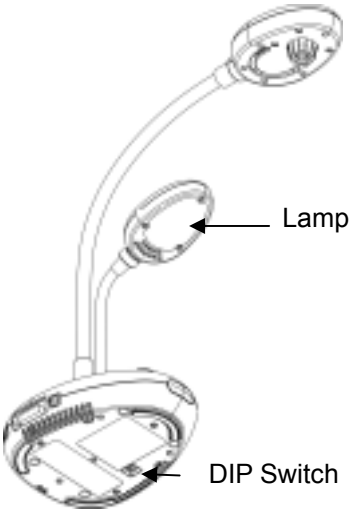
Please make sure the package comes with the following items when you unpack:

Camera 220C	User's Manual	CD
Power Cable	**USB Cable**	**C-Video Cable**
		
VGA Cable	**DVI Adapter**	**Remote Controller**

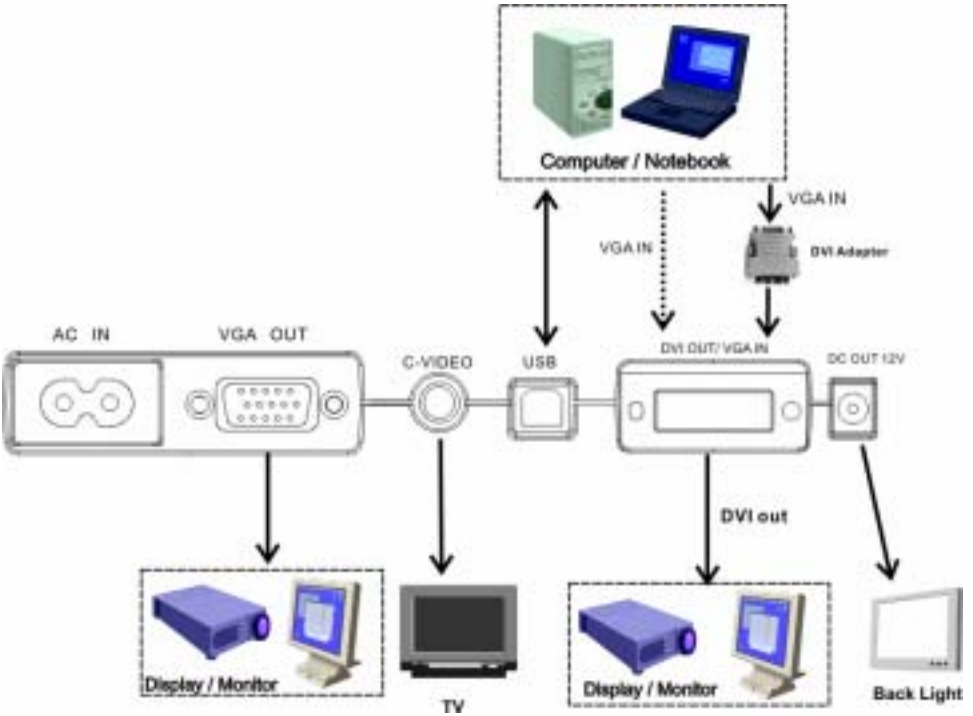
Chapter 3 Product Overview

3.1 Product Introduction

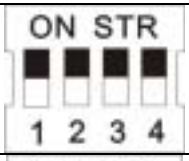
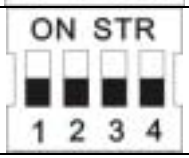




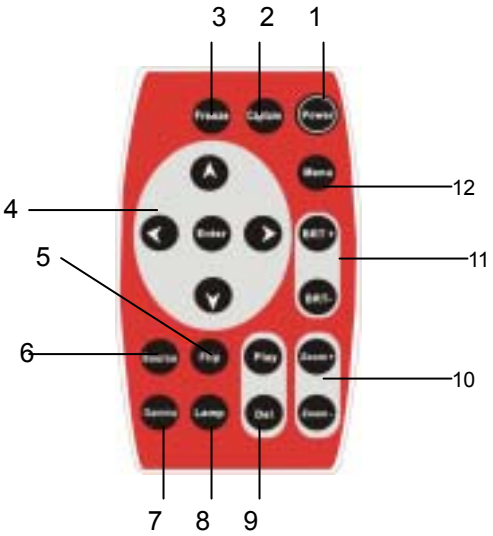
3.2 I/O Connection



3.3 DIP Switch

	SW1	SW2	SW3	SW4	Diagram
	Auto Exposure	C-Video Output	Video Signal Output	Resolution	
ON	AE ON	Video ON	PAL	SVGA	
OFF (Default Setting)	AE OFF	Video OFF	NTSC	XGA	

3.4 Infrared Remote Control



1. **Power:**
   Turn on/ off.
2. **Capture:**
   Capture the image.
3. **Freeze:**
   Freeze the image.
4. **Arrows:**
   You may press the 4 hot keys of Up/Down/Right/Left to go to the desired function item then press the Enter key to take effect.
5. **Flip:**
   Rotate the image by 180 degrees.
6. **Source:**
   Switch between different signal sources.
7. **Gamma:**
   Different color contrast modes.
8. **Lamp:**
   Turn on/ off Lamp.
9. **Play & Del:**
   Play press, you can recall the saved images in the flash memory of your Digital Presenter. Press Del if you would like to discard the saved image.
10. **Zoom +/-:**
    Make the image larger & smaller.
11. **BRT+/-:**
    Press the keys to make the image brighter or darker.
12. **Menu:**
    Click on Menu, you may adjust all the functions on the screen.

CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCRDING TO THE INSTRUCTIONS.

Chapter 4 How to use it

This chapter describes the basic and advanced functions of the Digital Presenter, how to use the OSD (On Screen Display) menu.

4.1 Getting Started

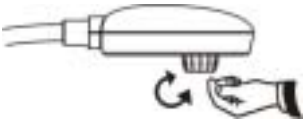
4.1.1 Turn on the Digital Presenter.

- Option 1: Press

button.
- Option 2: Press button of remote controller.

4.1.2 Lens focus

- Turn the lens to optimize the focus



4.1.3 Zoom in / Out

- Press the control button

4.1.4 Switch source

- Press

to Choose signal source between Camera 220C or PC. That signal is sent to the projector.

4.1.5 Photo/Text:

➢ Press to Select the text or photo mode.

4.1.6 Enter AWB (Auto White Balance)

➢ press to make the auto white balance.

4.1.7 Capture Image & Review capture image

➢ How to capture an image

Method 1：Press on the remote to capture image that you would like to save.

Method 2：Follow the steps using the pad buttons on the Camera.

2.1 First, press to go to the OSD interface.

2.2 Second, press^ v< > to survey icon, and

press "Enter AWB" button

Then select “**Capture**”, and press to capture image that you would like to save.

➢ Review of capture images:

Method 1：Operation from Camera pad buttons.

1.1 First, press

button to go to OSD interface.

1.2 Second, press **^ v** to survey icon, and press

Then select "**Playback**", and press

, so you can see all captured thumbnail images on the screen.

1.3 You can press button to select the images which you want to magnify. (Enlarge to full screen)

Then press

, the image will appear as full screen.

Method 2: Using the Remote Control:

2.1 First please press the

button to see all thumbnail images that you had captured.

Then, press button to select image which you want to enlarge and press

, the image will now become full screen.

Model 3：Use the remote to operate the OSD interface operation.

3.1 Press the

button to go into the OSD interface.

3.2 Press **^ v** select icon and press .

Then select "**Playback**", and press , so you can see all captured thumbnail images on the screen.

3.3 Then, press button to select the thumbnail image which you want to magnify and press , the image will show on full screen.

4.2 Showing the OSD (On Screen Display) Menu

- Option 1: Press button to show the OSD Menu
- Option 2: Press button of remote control.

4.3 Select function:

- Option 1: Press the ^ v< > to search functions then press the Enter key to enable your selection.
- Option 2(On remote control): Press ^ v< > to navigate functions then press the Enter key to invoke your selection.

4.4 OSD Menu Introduction

The Main Menu containing five icons and detail functions will be explained in next page.

Setting

Display

Source

Storage

Exit

➢ VGA Mode (Computer Image)

Layer 1	Layer 2	Layer 3	Function
Setting	**Lamp**	On / Off / Exit	Select Lamp On or Off.
	Night view	On/Off	Select Night view function On or Off.
	Language	English, Deutsch, Francais, Italiano, Espanol, Русский, 中繁, 中簡, Exit	Select a preferred language on the menu.
	Output Format	XGA 75Hz, XGA 60Hx, SVGA 75Hz, SVGA60 Hz	Select a fitting output format.
	Factory Reset	Enter/Exit	Reset all the values to the factory default.
	Exit		Exit this menu.

Display	**Brightness**	0-46 (for PAL) 0-40 (for NTSC)	Brightness adjustment
	Zoom	Digital Zoom (100% to 1600%) ◁ ▭ ▷	Adjust Zoom 100% ~ 1600%.
	Gamma	Photo / Text	Select Photo/Text Mode.
	Image	Normal / Gray / Film	Select Normal/Gray/Film Mode.
	Flip	On/Off	Adjust the image up and down by 180°.
	Freeze	On/Off	Use Freeze to retain the image on the screen.
	Exit		Exit this menu.
Source	**Presenter**		Select images of Presenter or VGA In.
	VGA In		
Storage	**Capture**		Capture the image of Presenter.
	Playback		Present the captured image.
	Delete		Delete the captured image.
	Delete All	Delete All	Delete all images.
		Enter/ Exit	
	Format	Memory Format	Memory Format
		Enter/ Exit	
	Exit		Exit this menu.
			Exit menu.

VIDEO Mode (For NTSC, lower resolution)

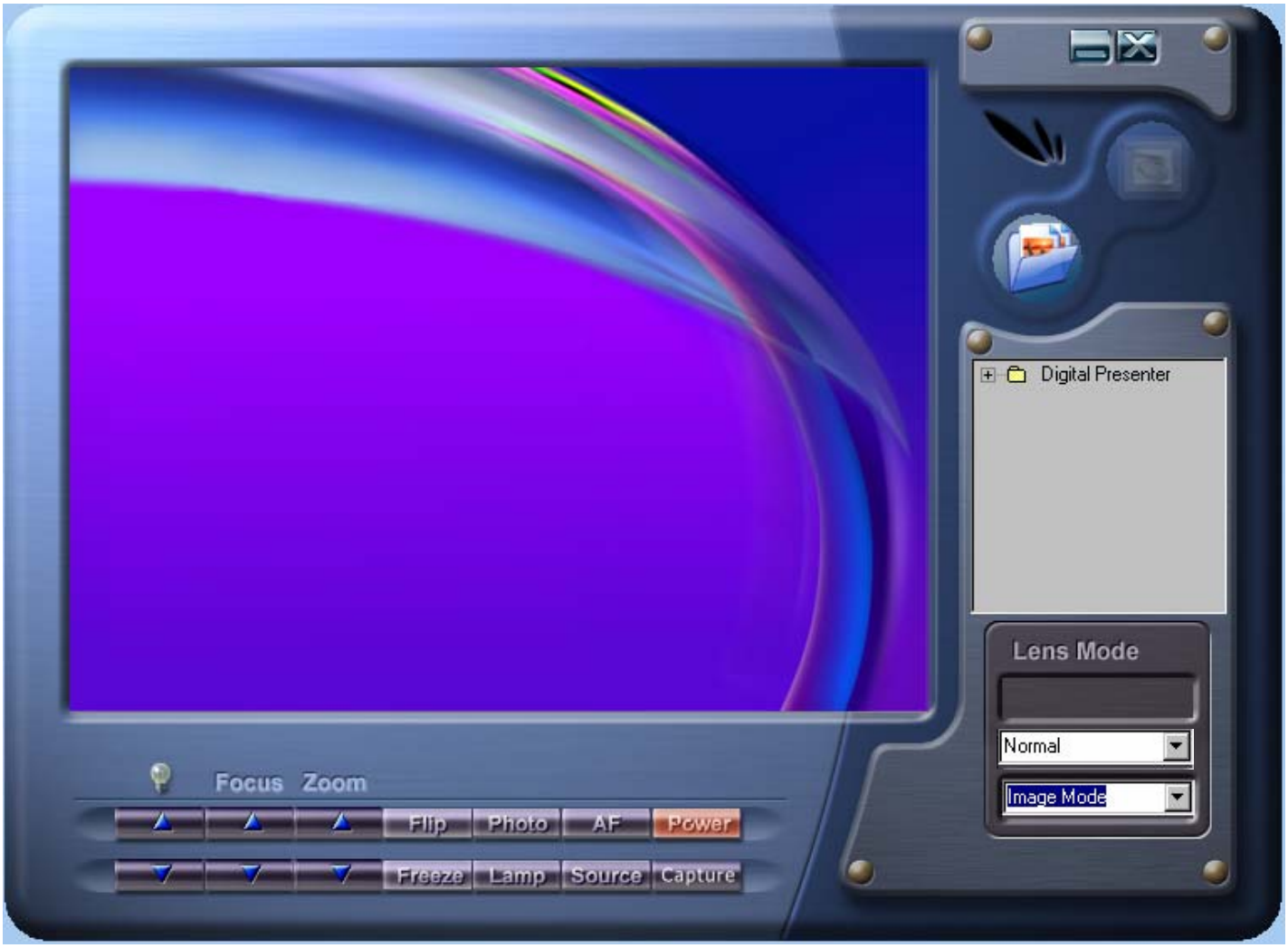
Layer 1	Layer 2	Layer 3	Function
Display	**Brightness**	0-46 (for PAL) 0-40 (for NTSC)	Brightness adjustment
	Gamma	Photo/Text	Select Photo/Text Mode.
	Image	Normal/Gray	Select Normal/Gray Mode.
	Freeze	On/Off	Use Freeze to retain the image on the screen.
	Exit		Exit this menu.
Setting	**Lamp**	On/Off	Turn On/Off lamp
	Advance	Full Range On/off Night view On /off Exit	Switch Full range on/off and night view on/off
	Language	English /中繁/中簡/Exit	Select a preferred language on the menu.
	Factory Reset	Enter / Exit	Reset all the values to the factory default.
	Exit		Exit this menu.
			Exit menu.

Camera as Switch

The DVI Adapter connects the DVI output to an input for a computer (VGA). When this input is used, the “SOURCE” button or menu command will switch the output between the “CAMERA IMAGE” and the “COMPUTER” image (VGA) on the DVI adapter.

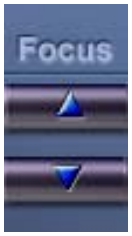
Using the USB Line to a Computer

1. Insert the CD into the computer.
2. **Connect the Digital Presenter and PC with USB Cable. Follow instructions for driver download.**
3. **Launch the VIEWII application.**



3. Control Functions:

3.1. **Brightness:** Brightness Adjustment

3.2. 

Focus: Focus Adjustment. **(only for Digital Presenter series)**

3.3.

Zoom: Zoom in/out Adjustment

3.4.

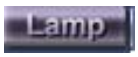
Flip: Flip the Image of Digital Presenter. (Only flips the output image to the projector. Will not flip image on PC monitor.)

3.5.

Freeze: Freeze the image of Digital Presenter.

3.6.

Photo: Adjust the gamma. (The Photo and Text functions are not available on the computer monitor)

3.7. 

Lamp on: Turn on the lamp

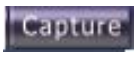
Lamp off: Turn off the lamp

3.8.

AF: Focus automatically. **(only for Digital Presenter series)**

3.9.

Source: Switch the Signal Source output (VGA or Presenter).

3.10. 

Capture: Capture the image from Digital Presenter. Then it can be saved by the PC directly.

3.11.

Power: Turn on/off the power.

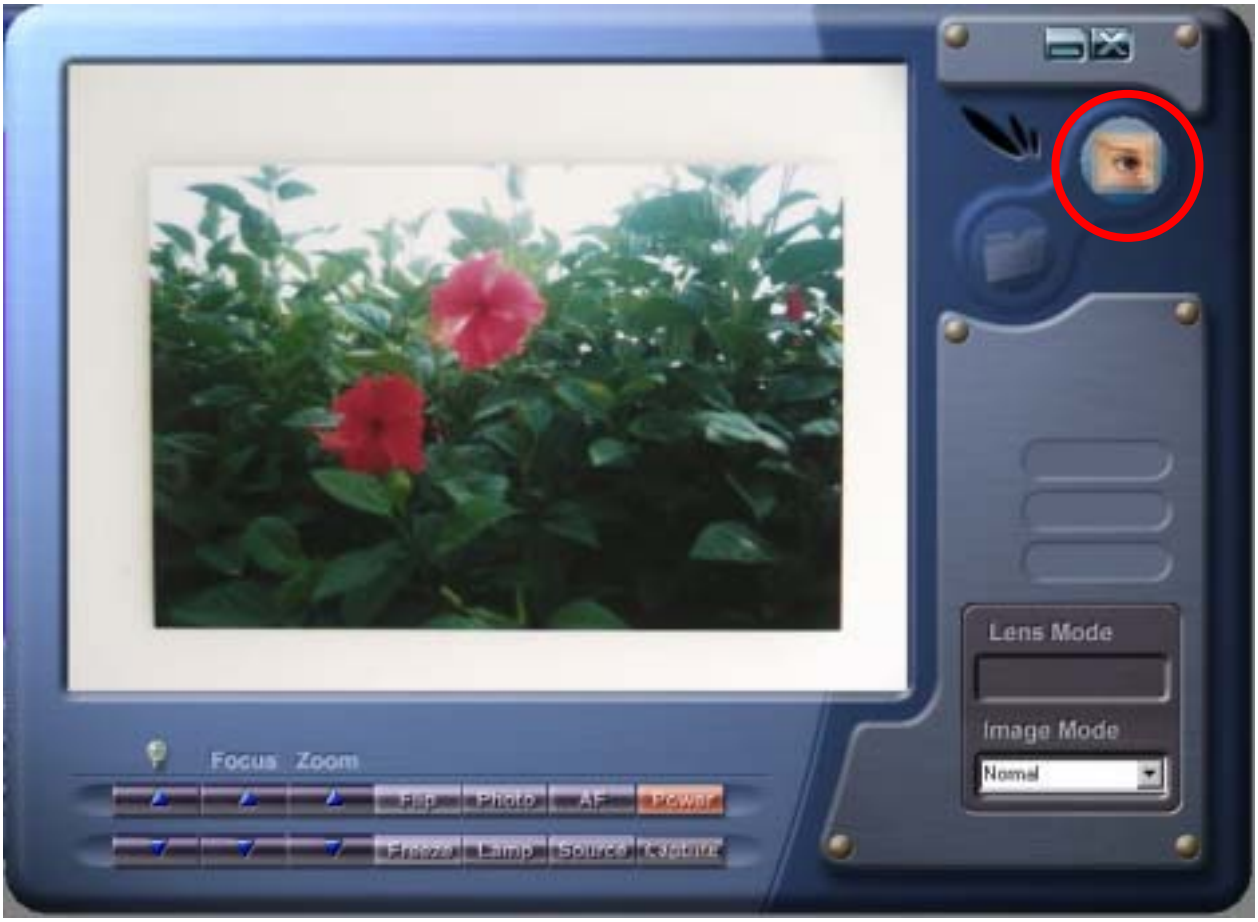
3.12. **Lens Mode**: No function.

3.13. **Image Mode**: Select the image type

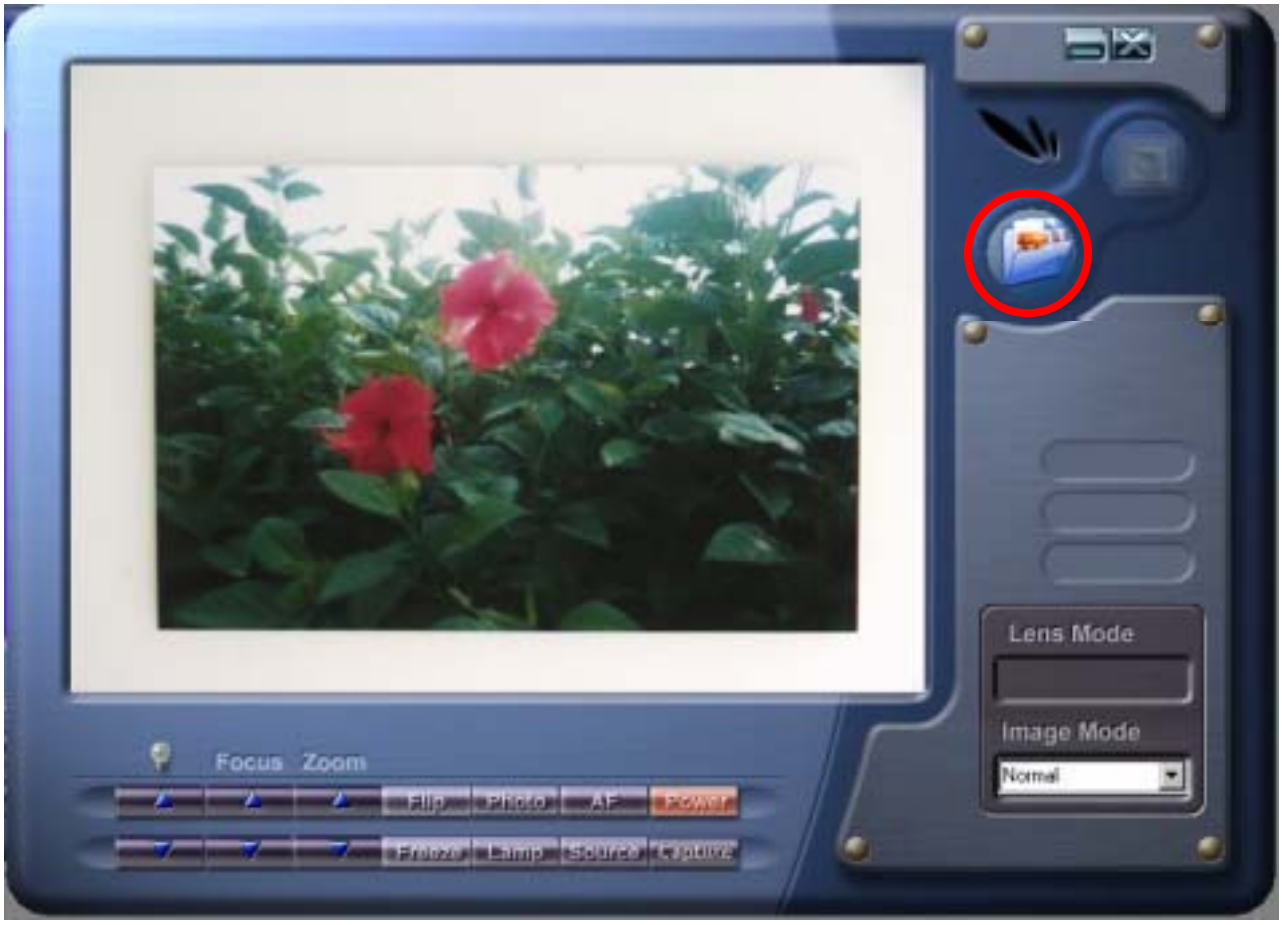
Normal, Gray, Invert

Slid , Microscope. (Only for special products)

4. **Real time display Mode:** Real Time display of the object.



5. Device Control Mode: The last image of the object will be frozen in the window and the “file browse window” will be shown on the left side of window.

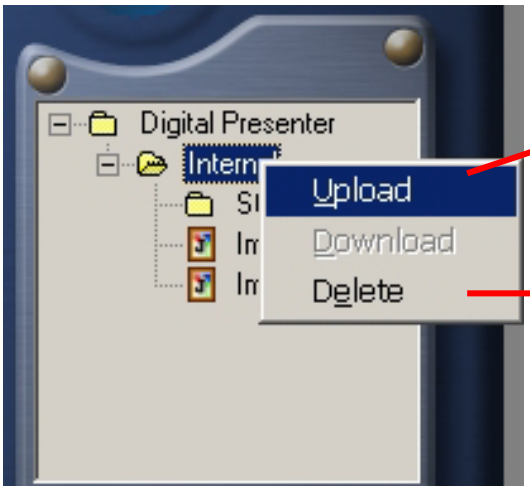


5.1. **File:** Browse the Image files in the internal folder of Digital Presenter.

5.2. **Internal:** These images were captured by Digital Presenter, and are located in the internal memory of Digital Presenter. They can be transfered to a PC.

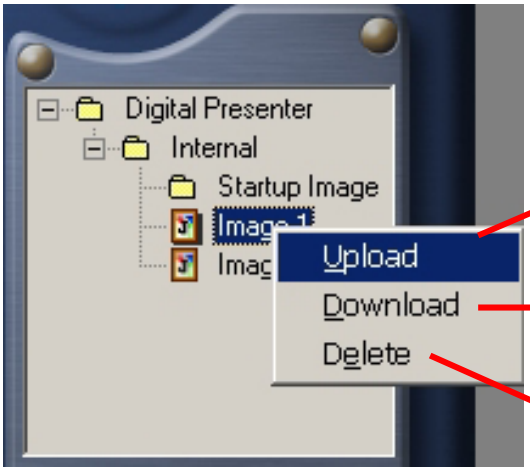
5.2.1. Upload / Download:

5.2.2. Right Click on the “Internal” Folder, then the following menu will appear on the screen.



Upload the image to the internal memory of Digital Presenter

Delete all the images in the internal memory of Digital Presenter



Upload the image to the internal memory of Digital Presenter.

Download the image from internal memory of Digital Presenter.

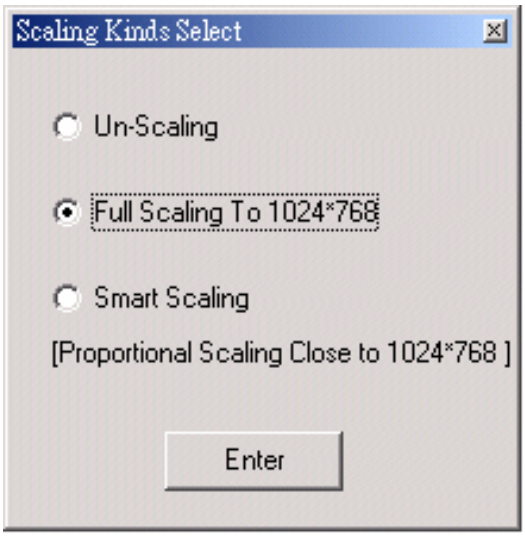
Delete the image in the internal memory of Digital Presenter.

5.3. Notice: If the uploaded images are not 1024*768 resolution, the following message window will appear on the screen, you can thn select a scale:

5.3.1. Un-Scaling.

5.3.2. Full Scaling To 1024*768.

5.3.3. Smart Scaling (Proportional Scaling Close to 1024*768).



5.4. Remote Control:

5.4.1. Right Click on "Internal" then click the **"**Remote Control**",** the control panel will be shown.

Chapter 5 Troubleshooting

If none of the suggested solutions solves the
problem, call your dealer or your service center.

Problem 1: No picture from the Digital Presenter.

Solution -

1: Wait a few seconds, press desired source selector again.

2: Press a different source, then press-desired source again.

3: Check if the power is turned on. (Pilot Light On?)

4: Make sure the document or object is positioned under the camera.

Problem 2: Cannot Focus, camera will not focus properly.

Solution - To properly focus: Zoom in as far as possible on the document or object, focus and then zoom out to desired distance.

Problem 3: Image is too bright or dark. Can not see desired part of the image because it is too bright or dark.

Solution – Adjust the BRT+/- Control Button on the remote control.

**** The updated information will be regularly released on the Dukane web site, please visit our web site http://www.dukcorp.com/av.***

Audio Visual Products

2900 Dukane Drive
St. Charles, Illinois 60174
www.dukcorp.com/av

Toll-free: 800-676-2487
Fax: 630-584-5156
e-mail: avsales@dukcorp.com

DUKANE